

In the northern part of the country, rains were scant, their mean being 2.8 mm. below normal. In the central part, the observed rainfalls were somewhat above their respective normals, the average plus departure being 53.1 mm. The rains in the south were scattered.

Progress of crops remained in general good, though the yields were irregular. Due to deficiency of rainfall in the north, the yield of beans was reduced, as also that of corn, which in some places was 50 per cent short.

The state of the weather in Rio de Janeiro was in general mild. Cloudiness was slightly below normal. Temperatures remained somewhat low, giving values which were on the whole a little below the respective normals. South to east winds of moderate velocity prevailed. On the early morning of the 15th, there was a heavy squall from WSW. with a maximum velocity of 19 m/s.

*June.*—The secondary circulation remained rather active, the country having been swept by five anticyclones which moved along inland paths and in low latitudes and caused noticeable drops in temperature. Frosts

were observed rather generally in the southern part of the country during the second half of the month.

For the country as a whole, rainfall was not very abundant, almost all the totals remaining below their respective normals. Due to rainfall deficit in the Amazon Basin, navigation on the rivers of that region was seriously interrupted, resulting in great detriment to commerce.

The progress of coffee, cotton, cane, rice, tobacco, wheat, corn and beans remained satisfactory, while the yield of cotton and cane were excellent. Coffee suffered a little from frosts during the latter days of the month; yields were, however, normal.

The weather in Rio de Janeiro was in general good, there being recorded only five cloudy days and three days with measureable precipitation. Mean temperature remained somewhat above normal, notwithstanding the fact that the mean minimum was 0.2 of a degree below normal.—*Transl. W. W. R. and B. M. V.*

## BIBLIOGRAPHY

C. FITZHUGH TALMAN, Meteorologist in Charge of Library

### RECENT ADDITIONS

The following have been selected from among the titles of books recently received as representing those most likely to be useful to Weather Bureau officials in their meteorological work and studies:

#### Argentina. Oficina meteorológica.

Pronóstico del estado del tiempo para la semana que empieza el día 18 de Marzo de 1926, capital federal y region del Río de La Plata. n. p. n. d. 1 sheet. 49½ cm.

#### Cave, C. J. P.

Clouds & weather phenomena, for artists and other lovers of nature. Cambridge. 1926. x, 29 p. fig. plates. 19½ cm.

#### Cotsworth, M[oses] B.

Calendar defects and how to remedy them. Washington. n. d. [4p.] illus. 26½ cm. (Internat. fixed calendar league, pamphlet "A.")

Calendar reform. Washington. n. d. 19 p. 26½ cm. (Internat. fixed calendar league. Pamphlet "B.")

#### Dorno, Carl.

Beiträge zur Kenntnis des Sonnen- und Quarzlicht-Erythems und -Pigmentes. p. 70-91. 24½ cm. (Sonderab.: Strahlentherapie, Bd. 22, 1926.)

Die Grundlagen der Klimatotherapie. Leipzig. 1926. p. 367-382. figs. 26½ cm. (Sonderab.: Handb. der prakt. Therapie als Ergebnis exper. Forschung. Bd. 1.)

Das physikalisch-meteorologische Observatorium in Davos. p. 215-230. plates. 23 cm. (Erweiterten Jahresbericht der naturforschenden Gesellschaft Graubündens zur Feier des 100 jährigen Bestandes, neue Folge. 64. Bd. Vereinsjahr 1925/26.)

#### Greenburg, Leonard.

Studies on the industrial dust problem. no. 1. Dust inhalation and its relation to industrial tuberculosis. Washington. 1925. 19 p. 23½ cm. (U. S. Public health serv. Pub. health reports. Repr. no. 990. Feb. 13, 1925.)

#### Hamburg. Deutsche Seewarte.

Obere Wolken: untere Wolken. [Hamburg. 1926.] 2 charts. 44 x 67½ cm.

#### [Kassner, Carl.]

Schinenifata na Petr Beron po meteorologija. Sofia. 1926. 7 p. fig. 26½ cm. (Otdielen otpechatk ot "Soornik d-r. P. Beron.")

#### Loewy, A., & Dorno, C.

Ueber Haut- und Körpertemperaturen und ihre Beeinflussung durch physikalische Reize. p. 14-29. fig. 24½ cm. (Aus dem Institut für Hochgebirgs-Physiologie und Tuberkuloseforschung in Davos.) II. Teil, Originalarbeiten.

#### Marvin, Charles F., & Cotsworth, Moses B.

Moses, the greatest of calendar reformers. Washington. n. d. 32 p. illus. 27 cm. (Internat. fixed calendar league, pamphlet "C.")

#### National storm insurance bureau.

Storm insurance of property. Tornado & hailstorm hazards. Finley system. New York. 1920. 9 charts. 29½ cm.

#### Schreiber, Paul.

Wärmemechanik wasserhaltiger Gasgemische mit den Hilfsmitteln der Flächennomographie bearbeitet. Braunschweig. 1925. viii, 195 p. figs. plates (fold.) 24½ cm.

#### Simpson, G. C.

Climatic changes. p. 129-141. 26 cm. [Nineteenth century, London. v. 99, Jan., 1926.]

On lightning. p. 56-67. figs. plate. 25½ cm. (Proc. Roy. soc., A, v. 3, 1926.)

#### Union of South Africa. Drought investigation committee.

Final report. October, 1923. Cape Town. 1923. 222 p. figs. maps. 33½ cm.

#### Vercelli, Francesco.

Ricerche di oceanografia fisica. Pte. 2. Ricerche di ottica marina. Pte. 3. Condizioni meteorologiche durante la crociera. Genova. 1926. 78 p. illus. 32½ cm. (Campana idrografico-scientifica nel Mar Rosso R. N. "Amiraglio Magnaghi" 1923-24.) (Ist. idrog. della R. Marina Est. Annali idrog. v. 11.)

#### Visher, Stephen S., & Hodge, D.

Australian hurricanes and related storms, with an appendix on hurricanes in the South Pacific. [Melbourne. 1925.] 54 p. illus. plates. 30½ cm. (Australia. Commonwealth bureau of meteorology. Bulletin no. 16.)

#### Vladivostok meteorological observatory.

Precipitation of Maritime province. Vladivostok. 1925. iv, 59 p. chart. 34 cm. [Text in Russian and English.]

#### Walker, Gilbert, & Bliss, E. W.

On correlation coefficients, their calculation and use. p. 73-84. figs. 25 cm. (Quart. journ. Roy. met. soc., v. 52, Jan., 1926.)

#### Warsaw. Wydaawnictwa ministerstwa rolnictwa i dóbr państwowych.

Prace meteorologiczne i hydrograficzne. (Études météorologiques et hydrographiques.) Warszawa. 1924. 106 p. figs. 28½ cm. (Text in Polish, résumé in French.)

### RECENT PAPERS BEARING ON METEOROLOGY

The following titles have been selected from the contents of the periodicals and serials recently received in the library of the Weather Bureau. The titles selected are of papers and other communications bearing on meteorology and cognate branches of science. This is not a complete index of all the journals from which it has been compiled. It shows only the articles that appear to the compiler likely to be of particular interest in connection with the work of the Weather Bureau.

*Aero digest.* New York. v. 9. July, 1926.

Moffett, William A. Weather and the national defense. p. 9; 74.